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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,907	06/03/2005	Jaakko Haapanen	FORSAL-104	1837
36528	7590	01/18/2008	EXAMINER	
STIENNON & STIENNON 612 W. MAIN ST., SUITE 201 P.O. BOX 1667 MADISON, WI 53701-1667			KIM, SANG K	
			ART UNIT	PAPER NUMBER
			3654	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary****Application No.**

10/534,907

**Applicant(s)**

HAAPANEN, JAAKKO

**Examiner**

SANG KIM

**Art Unit**

3654

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on Pre-Amdt. 5/14/05.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 11-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 11-13, 16, 18-20, 29 and 34 is/are rejected.
- 7) ☒ Claim(s) 14, 15, 17, 21-28 and 30-33 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>5/14/05</u> .   | 6) <input type="checkbox"/> Other: _____                          |

### ***Claim Objections***

Claims 11-33 are objected to because of the following informalities:

In claim 11, lines 3-4, "device" and "locking device" should be --the core locking device--. Note: applicant is advised to check rest of the claims.

In claim 18, lines 1-2, "a two-drum winder" should be --the two-drum winder--.

In claim 26, lines 1-2, "a two-drum winder" should be --the two-drum winder--.

In claim 33, line 1, "a counterforce" should be --the counterforce--.

In claim 21, line 10, "the pivoting angle" should be --a pivoting angle--.

In claim 29, line 7, "the center" should be --a center--.

In claim 30, line 7, "the pivoting angle" should be --a pivoting angle--.

Appropriate corrections are required. Applicant is advised to keep each terminology consistent throughout the claims in order to avoid any confusion.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17-18, 26, 31 and 34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 17 and 31, the phrase, "detects and/or eliminates a bouncing phenomenon," is indefinite and vague. Examiner cannot determine whether the features stated above are inclusive together or exclusive in alternative form.

Art Unit: 3654

In claims 18, 26 and 34, the phrase, "[said] two-drum winder which uses as one winding drum [and] a set of drums around which a belt has been disposed, the change of the starting position of winding caused by wear of the belt being compensated for by the location of the device," is indefinite and vague. What is considered to be the change of the starting position? How is the location of the device compensate the belt from being worn? In so far as the claims are understood as the winding drum with a belt that can support the reel that can change in diameter as the web winds onto the reel.

Claim 34 is indefinite and vague. Claim 34 depends from claim 39, and claim 39 does not exist. Because of the indefiniteness, claim 39 cannot be meaningfully treated with respect to the prior art at this time.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 13, 19-20 and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Mondini et al., U.S. Patent No. 4565337.

Regarding claims 11, 19 and 29, Mondini '337 discloses a core locking device (using the pistons 9) in a two-drum winder (3, 4) comprising: locking members (using cylinders 10) for locking the device to a winding core of a roll (2) to be wound on the two-drum winder, which [the core locking] device is placed on a slide (12) and a frame

Art Unit: 3654

structure (11) for mounting to the slide (12) arranged in connection with the two-drum winder, which [the core] locking device moves, as winding progresses, with a center (no reference number assigned) of the roll being formed along the slide, the core locking device moving with the center of the roll being formed forwards on the slide, so that the core locking device will gradually be an angle ( $\alpha$ ) with respect to the slide, with the result that a force (no reference number assigned) is produced in the cent of the roll because of the weight of the core locking device; and an actuator (28) arranged to produce a counterforce for the force caused by the mass of the core locking device in the changed position of the core locking device, see figure 1.

Regarding claim 13, Mondini '337 discloses the actuator 28 is a semi-rotary actuator (using 32-34 and 38) which can pivot, see figure 1.

Regarding claim 20, Mondini '337 discloses the core locking device [is] disposed in connection with a variable geometry two-drum winder (i.e., since the core locking device moves with respect to the two-drum winder).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mondini et al., U.S. Patent No. 4565337, in view of Diltz, U.S. Patent No. 3869095.

Art Unit: 3654

Regarding claims 12 and 16, as stated above, Mondini '337 discloses the actuator 28 is a pneumatic cylinder which can change the flow of the pneumatic cylinder.

Diltz '095 discloses the concept of replacing pneumatic cylinders to hydraulic cylinders, see column 6, lines 33-38.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to replace the pneumatic cylinder of Mondini '337 with the hydraulic cylinder as taught by Diltz '095, to show that the cylinders are not limited to one particular type.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mondini et al., U.S. Patent No. 4565337, in view of Niskanen, U.S. Patent No. 6820834 B1.

As stated above, Mondini '337 discloses the two-drum winder which can compensate the changing diameter of the reel.

Niskanen '834 discloses the two-drum winder using a belt 15 to help wind the reel, see figure 1.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the two-winder drum of Mondini '337 with a belt as taught by Niskanen '834, to show that there are many different ways to wind the reel.

***Allowable Subject Matter***

Claims 21-28 and 30-33 are allowed.

Art Unit: 3654

The following is a statement of reasons for the indication of allowable subject matter:

The claims are patentable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth in claims 21 and 30, including all of the structural elements recited in the claims, especially using the actuator to respond to the sensor to produce a counter force to a force caused by the weight of the core locking device and using the sensor to measure a pivot angle of the locking member with respect to the frame structure.

Claims 14-15 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See U.S. Patent No. 4673137.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANG KIM whose telephone number is 571-272-6947. The examiner can normally be reached Monday through Thursday from 9:00 A.M. to 5:30 P.M.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Cuomo, can be reached on (571) 272-6856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3654

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SK

1/17/08

A handwritten signature in black ink, appearing to be "Gary KS", located in the lower right quadrant of the page.